

Isotech has the solutions for temperature calibration

Providing Temperature Calibration Solutions for Over 40 Years



*Our equipment comes with **UKAS calibration certificates**, ensuring you get the best-in-class solutions for your calibration requirements.*

Trust Isotech for your temperature calibration needs and experience the difference that precision and reliability can make.

wider temperature ranges, or higher accuracy. At Isotech, we provide UKAS calibration certificates from our accredited laboratory, ensuring trustworthy and reliable calibration.

How can calibration be trusted?

With the Queen's Award for Enterprise Innovation and over 40 years of experience calibrating temperature sensors and providing primary temperature standards for national metrology institutes, Isotech is a trusted partner.

We are proud to share our expertise and knowledge with our valued customers.

How can Isotech help?

Whether you have specific inquiries or require in-house/on-site temperature training courses, Isotech is here to assist you.

To explore our range of temperature calibration solutions, explore our website at isotech.co.uk.

At Isotech, we understand that temperature calibration plays a crucial role in various industries.

We are thrilled to share how our cutting-edge solutions are revolutionising temperature measurement and calibration, potentially saving hundreds of thousands of pounds each year.

Temperature, the second most measured parameter after time, affects diverse sectors, from automotive to medical and power generation. While non-critical measurements may not have significant consequences, accurate temperature measurements become critical in fields like medicine, where even minor errors can be life-threatening.

Confidence in temperature calibration

A complete measuring system involves both a sensor and a measuring instrument.

While electrical simulation suffices for calibrating instruments, temperature sensors require calibration over their operating range using a stable heat source. It is common for sensor drift to exceed that of measuring instruments.

Calibrating the measuring system

Isotech offers a comprehensive range of portable heat sources capable of calibrating sensors and instruments from -100°C to 1,300°C. Whether you need small handheld sources or devices accommodating large sensors, we have the perfect solution for your calibration needs.

Low uncertainty calibration of thermometers

While some sensors can be calibrated on-site, others necessitate laboratory calibration with larger volumes, -

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Rt
TEMPERATURE in thermocouples calibration by comparison	-50 °C to 0 °C 0 °C to 50 °C 50 °C to 650 °C 650 °C to 1100 °C 1100 °C to 1300 °C	0.5 °C 0.45 °C 0.4 °C 0.7 °C 1.7 °C	Thermocouples in junction will have uncertainty
in fixed points	231.928 °C 419.527 °C 650.323 °C 961.78 °C	0.4 °C 0.4 °C 0.4 °C 0.4 °C	Note: FP = Freezing